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Homotopy Exponents and Stable Homotopy Groups of Spheres



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Homotopy Exponents and Stable Homotopy Groups of Spheres Hao Zhao, Wenhui Shen, Linan Zhong, 2014-06-17

We all know that determining the homotopy groups of a topological space is one of the central problems in homotopy theory. There is always a deep relation between the homotopy groups and other mathematical invariants which have wide applications in many fields such as geometric topology, algebra, algebraic K theory and algebraic geometry. Via the view of homotopy theory, we try to approach the homotopy groups from two different sides: i) Consider the general property of homotopy groups such as homotopy exponent; ii) Consider the computation of stable homotopy groups of spheres.

Complex Cobordism and Stable Homotopy Groups of Spheres Douglas C. Ravenel, 2023-02-09. Since the publication of its first edition, this book has served as one of the few available on the classical Adams spectral sequence and is the best account on the Adams-Novikov spectral sequence. This new edition has been updated in many places, especially the final chapter which has been completely rewritten with an eye toward future research in the field. It remains the definitive reference on the stable homotopy groups of spheres. The first three chapters introduce the homotopy groups of spheres and take the reader from the classical results in the field through the computational aspects of the classical Adams spectral sequence and its modifications, which are the main tools topologists have to investigate the homotopy groups of spheres. Nowadays the most efficient tools are the Brown-Peterson theory, the Adams-Novikov spectral sequence and the chromatic spectral sequence, a device for analyzing the global structure of the stable homotopy groups of spheres and relating them to the cohomology of the Morava stabilizer groups. These topics are described in detail in Chapters 4 to 6. The revamped Chapter 7 is the computational payoff of the book, yielding a lot of information about the stable homotopy group of spheres. Appendices follow, giving self-contained accounts of the theory of formal group laws and the homological algebra associated with Hopf algebras and Hopf algebroids. The book is intended for anyone wishing to study computational stable homotopy theory. It is accessible to graduate students with a knowledge of algebraic topology and recommended to anyone wishing to venture into the frontiers of the subject.

Algebraic Topology - Rational Homotopy Yves Felix, 2006-11-15. This proceedings volume centers on new developments in rational homotopy and on their influence on algebra and algebraic topology. Most of the papers are original research papers dealing with rational homotopy and tame homotopy, cyclic homology, Moore conjectures on the exponents of the homotopy groups of a finite CW complex and homology of loop spaces. Of particular interest for specialists are papers on construction of the minimal model in tame theory and computation of the Lusternik-Schnirelmann category by means of articles on Moore conjectures on tame homotopy and on the properties of Poincaré series of loop spaces.

Algebraic Methods in Unstable Homotopy Theory Joseph Neisendorfer, 2010-02-18. The most modern and thorough treatment of unstable homotopy theory available. The focus is on those methods from algebraic topology which are needed in the presentation of results proven by Cohen-Moore and the author on the exponents of homotopy groups. The

author introduces various aspects of unstable homotopy theory including homotopy groups with coefficients localization and completion the Hopf invariants of Hilton James and Toda Samelson products homotopy Bockstein spectral sequences graded Lie algebras differential homological algebra and the exponent theorems concerning the homotopy groups of spheres and Moore spaces This book is suitable for a course in unstable homotopy theory following a first course in homotopy theory It is also a valuable reference for both experts and graduate students wishing to enter the field

Modern Classical

Homotopy Theory Jeffrey Strom, 2023-01-19 The core of classical homotopy theory is a body of ideas and theorems that emerged in the 1950s and was later largely codified in the notion of a model category This core includes the notions of fibration and cofibration CW complexes long fiber and cofiber sequences loop spaces and suspensions and so on Brown's representability theorems show that homology and cohomology are also contained in classical homotopy theory This text develops classical homotopy theory from a modern point of view meaning that the exposition is informed by the theory of model categories and that homotopy limits and colimits play central roles The exposition is guided by the principle that it is generally preferable to prove topological results using topology rather than algebra The language and basic theory of homotopy limits and colimits make it possible to penetrate deep into the subject with just the rudiments of algebra The text does reach advanced territory including the Steenrod algebra Bott periodicity localization the Exponent Theorem of Cohen Moore and Neisendorfer and Miller's Theorem on the Sullivan Conjecture Thus the reader is given the tools needed to understand and participate in research at part of the current frontier of homotopy theory Proofs are not provided outright Rather they are presented in the form of directed problem sets To the expert these read as terse proofs to novices they are challenges that draw them in and help them to thoroughly understand the arguments

Stable and Unstable Homotopy

William G. Dwyer, 1998-01-01 This volume presents the proceedings of workshops on stable homotopy theory and on unstable homotopy theory held at The Fields Institute as part of the homotopy program during the year 1996 The papers in the volume describe current research in the subject and all included works were refereed Rather than being a summary of work to be published elsewhere each paper is the unique source for the new material it contains The book contains current research from international experts in the subject area and presents open problems with directions for future research

Handbook of Algebraic Topology I.M. James, 1995-07-18 Algebraic topology also known as homotopy theory is a flourishing branch of modern mathematics It is very much an international subject and this is reflected in the background of the 36 leading experts who have contributed to the Handbook Written for the reader who already has a grounding in the subject the volume consists of 27 expository surveys covering the most active areas of research They provide the researcher with an up to date overview of this exciting branch of mathematics

Homotopy Theory of the Suspensions of the Projective Plane Jie Wu, 2003 Investigates the homotopy theory of the suspensions of the real projective plane This book computes the homotopy groups up to certain range It also studies the decompositions of the self smashes and the loop spaces with some applications to the

Stiefel manifolds *Algebraic Topology: Oaxtepec 1991* Martin C. Tangora, 1993 This book consists of twenty nine articles contributed by participants of the International Conference in Algebraic Topology held in July 1991 in Mexico In addition to papers on current research there are several surveys and expositions on the work of Mark Mahowald whose sixtieth birthday was celebrated during the conference The conference was truly international with over 130 mathematicians from fifteen countries It ended with a spectacular total eclipse of the sun a photograph of which appears as the frontispiece The papers range over much of algebraic topology and cross over into related areas such as K theory representation theory and Lie groups Also included is a chart of the Adams spectral sequence and a bibliography of Mahowald's publications Stable Homotopy Groups of Spheres Stanley O. Kochman, 2006-11-14 A central problem in algebraic topology is the calculation of the values of the stable homotopy groups of spheres S In this book a new method for this is developed based upon the analysis of the Atiyah Hirzebruch spectral sequence After the tools for this analysis are developed these methods are applied to compute inductively the first 64 stable stems a substantial improvement over the previously known 45 Much of this computation is algorithmic and is done by computer As an application an element of degree 62 of Kervaire invariant one is shown to have order two This book will be useful to algebraic topologists and graduate students with a knowledge of basic homotopy theory and Brown Peterson homology for its methods as a reference on the structure of the first 64 stable stems and for the tables depicting the behavior of the Atiyah Hirzebruch and classical Adams spectral sequences through degree 64

Handbook of Homotopy Theory Haynes Miller, 2020-01-23 The Handbook of Homotopy Theory provides a panoramic view of an active area in mathematics that is currently seeing dramatic solutions to long standing open problems and is proving itself of increasing importance across many other mathematical disciplines The origins of the subject date back to work of Henri Poincaré and Heinz Hopf in the early 20th century but it has seen enormous progress in the 21st century A highlight of this volume is an introduction to and diverse applications of the newly established foundational theory of categories The coverage is vast ranging from axiomatic to applied from foundational to computational and includes surveys of applications both geometric and algebraic The contributors are among the most active and creative researchers in the field The 22 chapters by 31 contributors are designed to address novices as well as established mathematicians interested in learning the state of the art in this field whose methods are of increasing importance in many other areas *Algebraic Topology and Related Topics* Mahender Singh, Yongjin Song, Jie Wu, 2019-02-02 This book highlights the latest advances in algebraic topology from homotopy theory braid groups configuration spaces and toric topology to transformation groups and the adjoining area of knot theory It consists of well written original research papers and survey articles by subject experts most of which were presented at the 7th East Asian Conference on Algebraic Topology held at the Indian Institute of Science Education and Research IISER Mohali Punjab India from December 1 to 6 2017 Algebraic topology is a broad area of mathematics that has seen enormous developments over the past decade and as such this book is a valuable resource for

graduate students and researchers working in the field *Alpine Perspectives on Algebraic Topology* Christian Ausoni, Kathryn Hess, Jérôme Scherer, 2009 Contains the proceedings of the Third Arolla Conference on Algebraic Topology which took place in Arolla Switzerland on August 18-24 2008 This title includes research papers on stable homotopy theory the theory of operads localization and algebraic K theory as well as survey papers on the Witten genus and localization techniques **Algebraic Topology. Seattle 1985** Haynes R. Miller, Douglas C. Ravenel, 2006-11-15 During the Winter and spring of 1985 a Workshop in Algebraic Topology was held at the University of Washington The course notes by Emmanuel Dror Farjoun and by Frederick R Cohen contained in this volume are carefully written graduate level expositions of certain aspects of equivariant homotopy theory and classical homotopy theory respectively M E Mahowald has included some of the material from his further papers represent a wide range of contemporary homotopy theory the Kervaire invariant stable splitting theorems computer calculation of unstable homotopy groups and studies of L_n $Im J$ and the symmetric groups

Abelian Properties of Anick Spaces Brayton Gray, 2017-02-20 Anick spaces are closely connected with both EHP sequences and the study of torsion exponents In addition they refine the secondary suspension and enter unstable periodicity This work describes their space properties as well as universal properties Techniques include a new kind of Whitehead product defined for maps out of $co H$ spaces calculations in an additive category that lies between the unstable category and the stable category and a controlled version of the extension theorem of Gray and Theriault *Geom Topol* 14 (2010) no 1 243-275 **Gottlieb and Whitehead Center Groups of Spheres, Projective and Moore Spaces** Marek Golasinski, Juno Mukai, 2014-11-07 This is a monograph that details the use of Siegel's method and the classical results of homotopy groups of spheres and Lie groups to determine some Gottlieb groups of projective spaces or to give the lower bounds of their orders Making use of the properties of Whitehead products the authors also determine some Whitehead center groups of projective spaces that are relevant and new within this monograph Continuous Exponential Martingales and BMO Norihiko Kazamaki, 2006-11-15 In three chapters on Exponential Martingales BMO martingales and Exponential of BMO this book explains in detail the beautiful properties of continuous exponential martingales that play an essential role in various questions concerning the absolute continuity of probability laws of stochastic processes The second and principal aim is to provide a full report on the exciting results on BMO in the theory of exponential martingales The reader is assumed to be familiar with the general theory of continuous martingales *Encyclopaedia of Mathematics* Michiel Hazewinkel, 2013-12-01 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathematics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977-1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivision has been used The main requirement for these articles has been

that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science engineers and teachers of mathematics These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete problems results and techniques

Algebraic Topology, Aarhus 1978 J. L. Dupont, I. H. Madsen, 2006-11-15 University of Aarhus 50 Anniversary 11 September 1978

On Finite Groups and Homotopy Theory Ran Levi, 1995 In part 1 we study the homology homotopy and stable homotopy of capital Greek Omega italic capital B lowercase Greek Pi up arrowhead over subscript italic p where italic capital G is a finite italic p perfect group In part 2 we define the concept of resolutions by fibrations over an arbitrary family of spaces

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